



CITY OF BATH

Messrs W. Gray & Co

No 948

Profile

See plan of decks appd 20.10.25

*AL*

WEST HARTLEPOOL

*Rpt 16.4.11.*

W155-0016



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Decks

CITY OF BATH

Mess<sup>r</sup> W. Gray & Co

No 948

Deck Plans

WEST HARTLEPOOL

Rpt 16411.

X1155-0011



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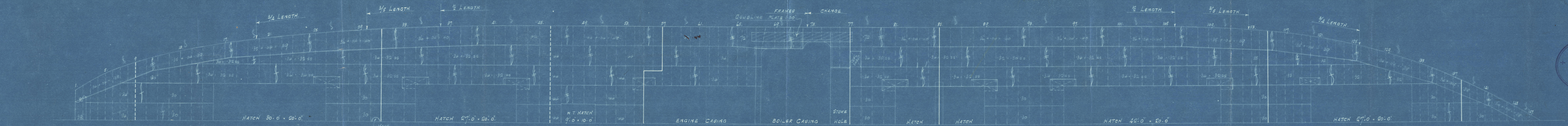


10/10/25

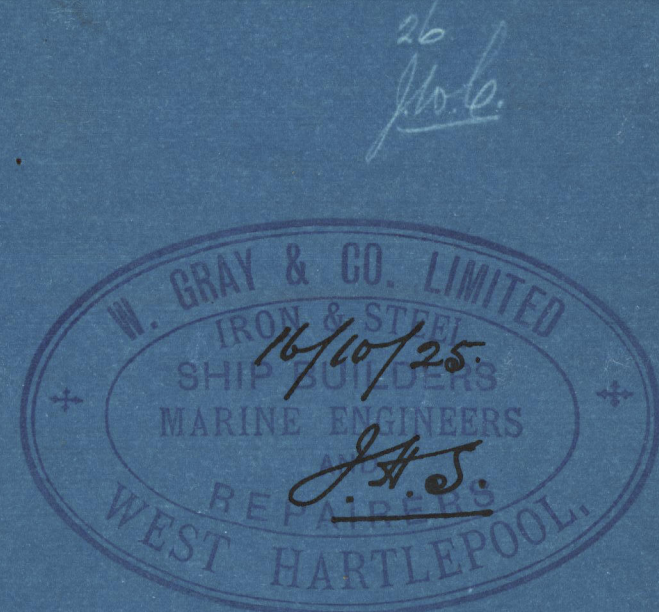
# DECK PLANS.

SCALE 1/8" = 1' 0"

NOTE. S.S. DENOTES SPECIAL STEEL.



978.



978.

10/10/25



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W155-0011



Midship Section

CITY OF BATH

Messrs W. Gray & Co

No 948

Midship Section

With Alternative Scantlings  
for Special Steel

Approved 8.9.25

See Later Copy

WEST HARTLEPOOL Rpt 16411.

W155-0015



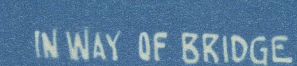
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SCALE  $\frac{1}{2}'' = 1 \text{ FOOT}$ .

BRIDGE OF PLATING 40 FOR  $\frac{1}{2}$ L TO  $\frac{3}{4}$ L AT FORE END  
INCREASED .04 ABREAST OPENINGS =  $.36 + .04 = .40$   
BRIDGE OF PLATING .37 ABREAST OPENINGS AT 30" SPACING.  
BUTTS DOUBLE RIVETED OVERLAPS FOR  $\frac{1}{2}$ L TO SINGLE AT ENDS



.55 — .38  
.60 To .40  
TREBLE OVERLAPS

.59-.41  
 .68 to .44  
 QUADRUPLE OVERLAP

K STRAKE 1 RIVETS QUADRUPLE OVERLAPS FOR  $\frac{1}{2}$  LENGTH  
TO TREBLE AT ENDS  
L STRAKE 7/8 RIVETS QUADRUPLE OVERLAPS FOR  $\frac{1}{2}$  LENGTH  
TO TREBLE AT ENDS  
K & L STRAKES 1 RIVETS 6 LAPS FOR  $\frac{1}{2}$  LENGTH OUTSIDE  
OF BRIDGE  
BOTTOM EDGE OF K STRAKE 7/8 RIVETS 5/4 LAP

13 RINS AT 36" SPACING  
11 RINS AT 30 & 27" SPACING

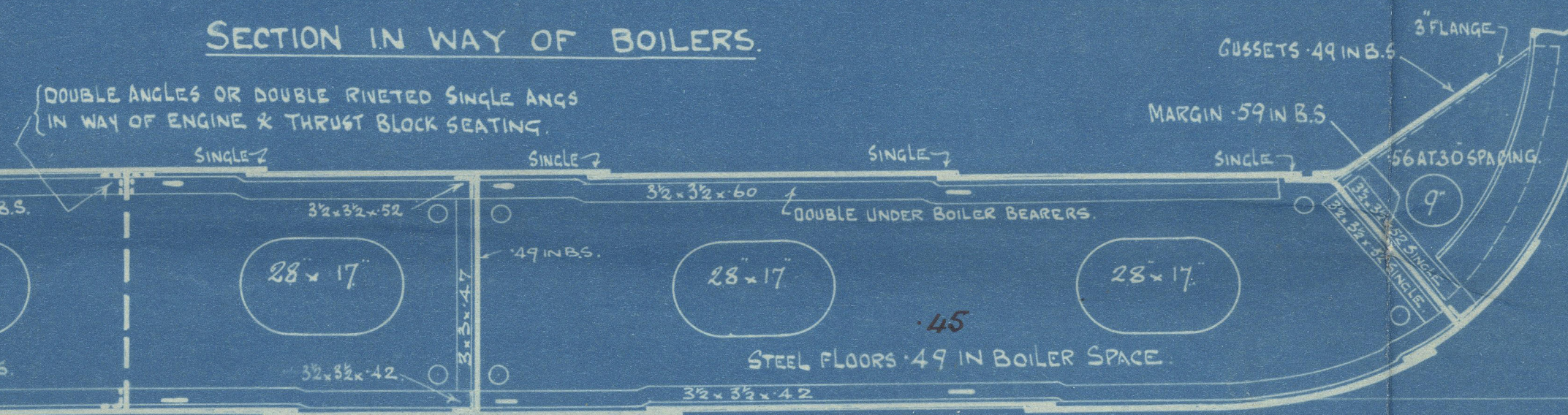
NOTE:- RIVETS IN MARGIN CONNECTIONS & GUSSETS  
INCREASED AT PANTING FRAMES AS PER RULES

TANK TOP <sup>41</sup> 46 IN HOLDS FOR <sup>36</sup>  $\frac{1}{2}$ L TO <sup>37</sup> 37 AT FORE END & 41 AT AFTER END.

- " <sup>48</sup> 50 IN ENGINE SPACE
- " <sup>52</sup> 56 IN BOILER SPACE

BUTTS DOUBLE RIVETED OVERLAPS FOR  $\frac{1}{2}$ L TO SINGLE AT ENDS.

RIVETING



FLOORS FITTED ON ALTERNATE FRAMES EXCEPT WHERE REQUIRED BY RULE  
PARTIAL FLOORS UNDER THRUST SEC 10 PARA 4

BOTTOM STRENGTHENED FORWARD AS PER RULE

ERECTIONS 88.55%

LLOYDS

Note. Special Quality Steel Scanlings in black ink.



Midship Section

CITY OF BATH

Mess<sup>rs</sup>. W. Gray & Co

No 948.

Midship Section

Approved 15.10.25

WEST HARTLEPOOL Sept 16 1911.

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SCALE  $\frac{1}{2}'' = 1$  FOOT.

OWNERS

LLOYDS

CLASS LLOYDS 100 A.I.

32485 · 38

2 BOWER ANCHORS (STOCKLESS)	63 3/4 CWTs EACH.
1 " " "	54 1/2 "
1 STREAM " (EX STOCK)	17 1/2 "
270 FATHOMS OF STD CHAIN CABLE	2 1/4 "
90 " " STREAM CABLE	4 3/4 STEEL WIRE
120 " " STEEL WIRE TOWLINE	5 "
90 " " HAWKERS	2 3/4 STEEL WIRE (20FF)
90 " " WARPS	2 1/2 " " (20FF)

ERECTIONS 88.55%

POSITION	LOYALTY THICKNESS	OWNERS INCREASE	THICK
FLOORS UNDER BOILERS	45% 49	10	5
INTER <sup>2</sup> 4	45% 49		
TANK TOP	52% 56		6
TANK FRAMES	42		5
TANK REV. FOS	60		7
INTER <sup>8</sup> TOP ANG	52		6
INTER <sup>8</sup> BOTTOMING	42		5
INTER <sup>8</sup> VERT <sup>2</sup> LOGS	47		5

K STRAKE 1" RIVETS QUADRUPLE OVERLAPS FOR  $\frac{1}{2}$  LENGTH.  
TO TREBLE AT ENDS.  
L STRAKE 7/8 RIVETS QUADRUPLE OVERLAPS FOR  $\frac{1}{2}$  LENGTH.  
TO TREBLE AT ENDS  
K & L STRAKES 1" RIVETS 6 LAPS FOR  $\frac{1}{2}$  LENGTH OUTSIDE  
OF BRIDGE.  
BOTTOM EDGE OF K STRAKE 7/8 RIVETS 5/4 LAP

NOTE:- S.S. DENOTES SPECIAL STEEL  
NBS DENOTES NEW BRITISH STANDARD SECTION

SECTION IN WAY OF BRACKET FLOORS

BOTTOM STRENGTHENED FORWARD AS PER RULE



MAIN BOILERS

CENTRAL MARINE  
ENGINE WORKS

VVM GRAY & Co LD

S.S. No 978.

No 3679
LLOYD TEST
448 LBS
VVP 265 LBS
24' 2126 TRDS

*S.S. "City of Bath"*

WEST HARTFORD Rpt 16411.

XII/55-0013



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# BOILER NO. 978.

WORKING PRESSURE = 265 lbs./sq. in.

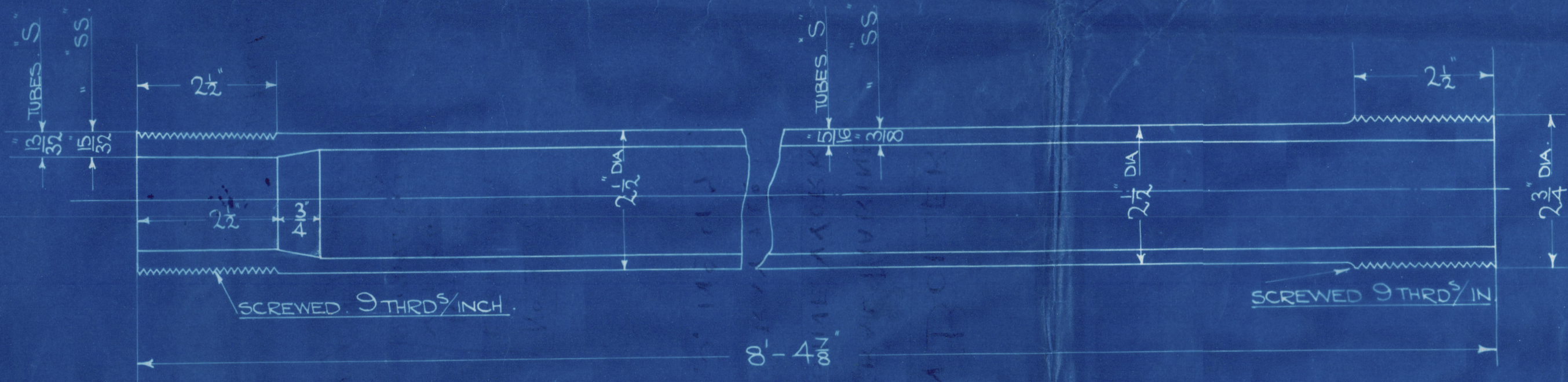
TEST = 448 lbs./sq. in.

2 OFF.

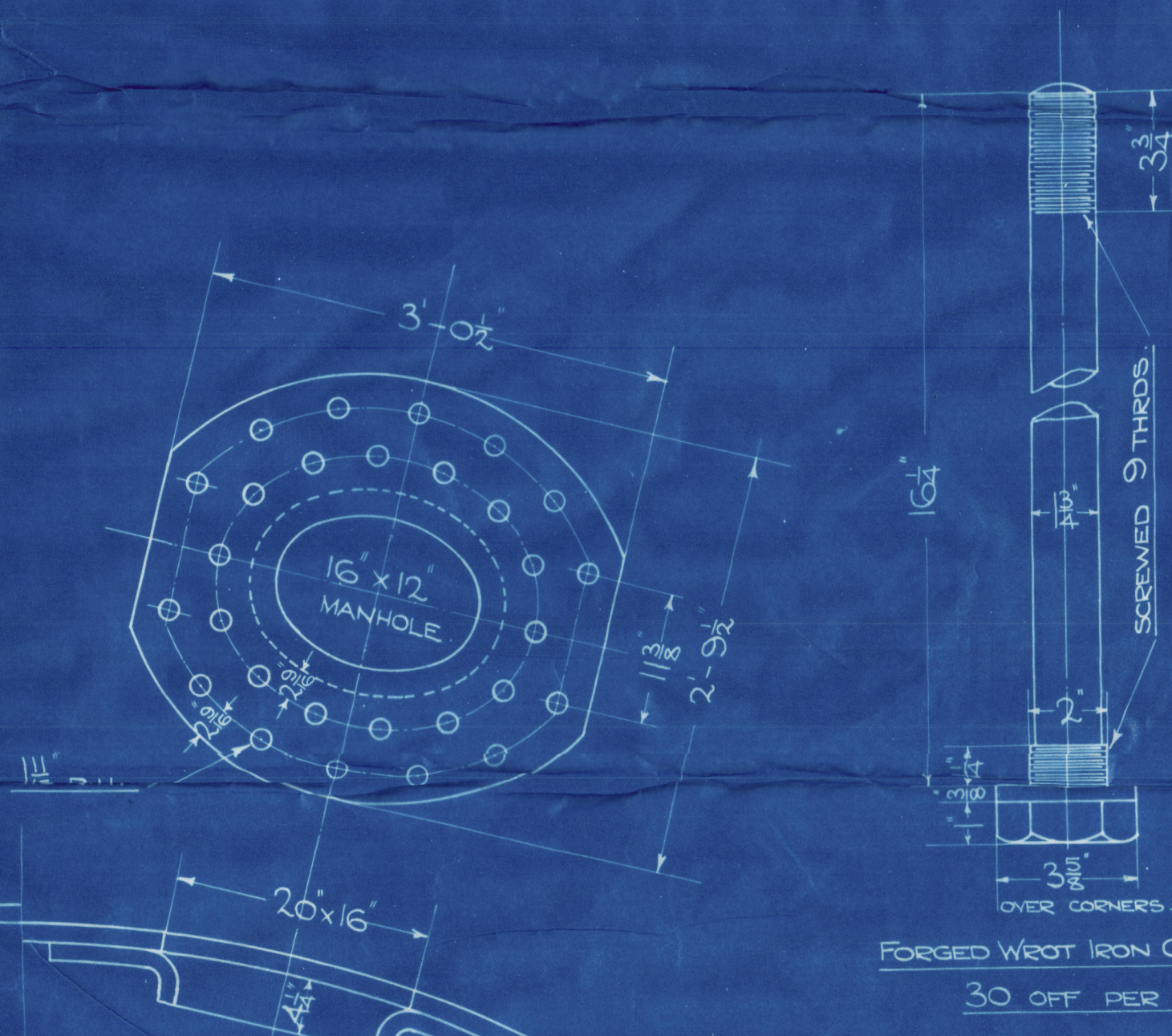
LLOYDS SURVEY.

SCALE 1" = 1 FOOT.

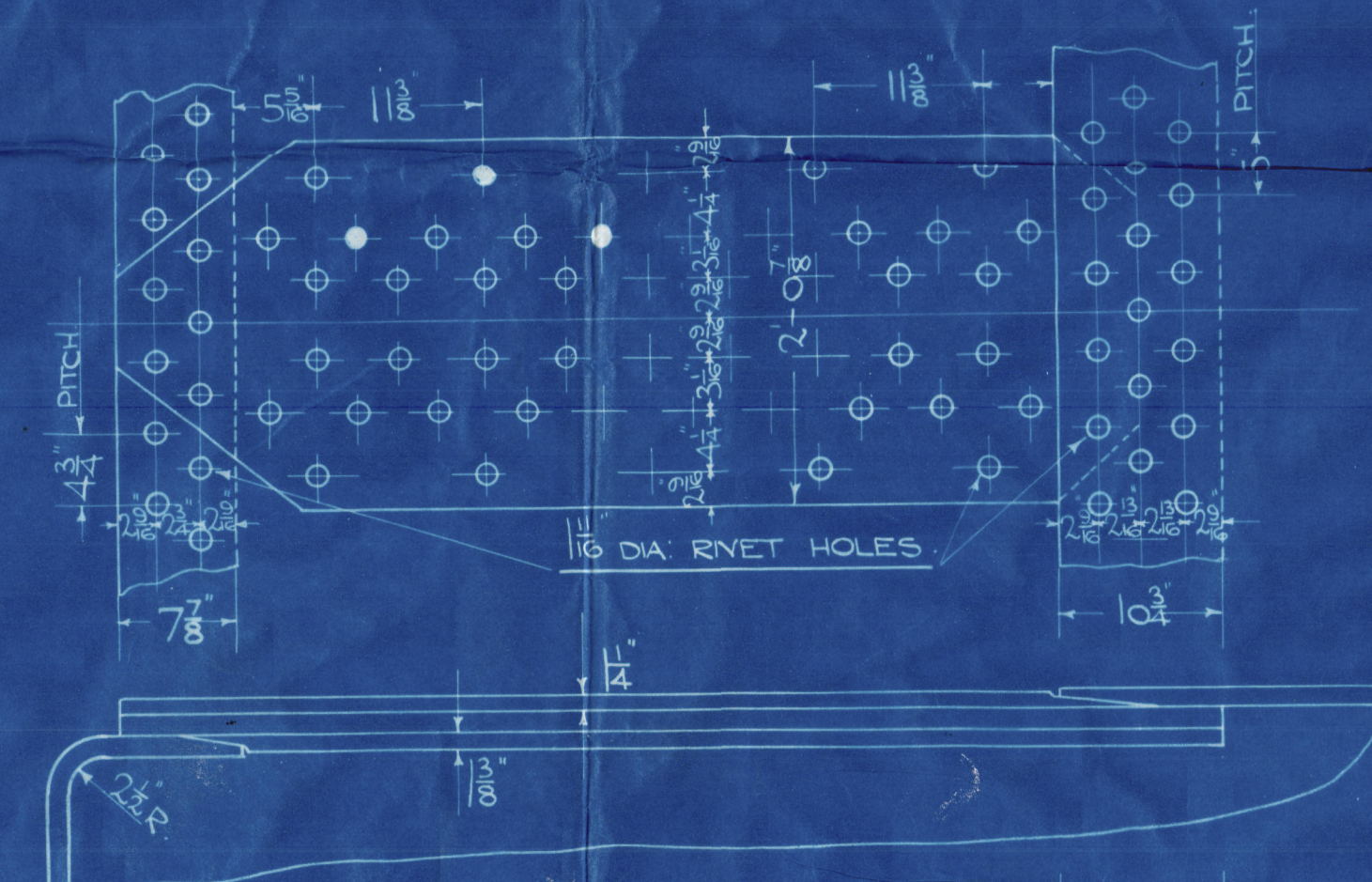
TO BE FITTED WITH HOWDENS SYSTEM OF FORCED DRAUGHT.



DETAIL OF STAY TUBES.



FORGED WROOT IRON GIRDER STAYS  
30 OFF PER BOILER



BOILER PARTICULARS.

	1 BOILER	2 BOILERS
HEATING SURFACE OF TUBES	2125 sq. ft.	4250 sq. ft.
" " FURNACES	176 "	352 "
" " COMB CHAMBERS	250 "	500 "
" " BACK TUBE PLATES	42 "	84 "
" " FRONT "	34 "	68 "
TOTAL	2627 sq. ft.	5254 sq. ft.
GRATE SURFACE (5-3 BARS)	58.6 sq. ft.	117.2 sq. ft.
RATIO	44.7	

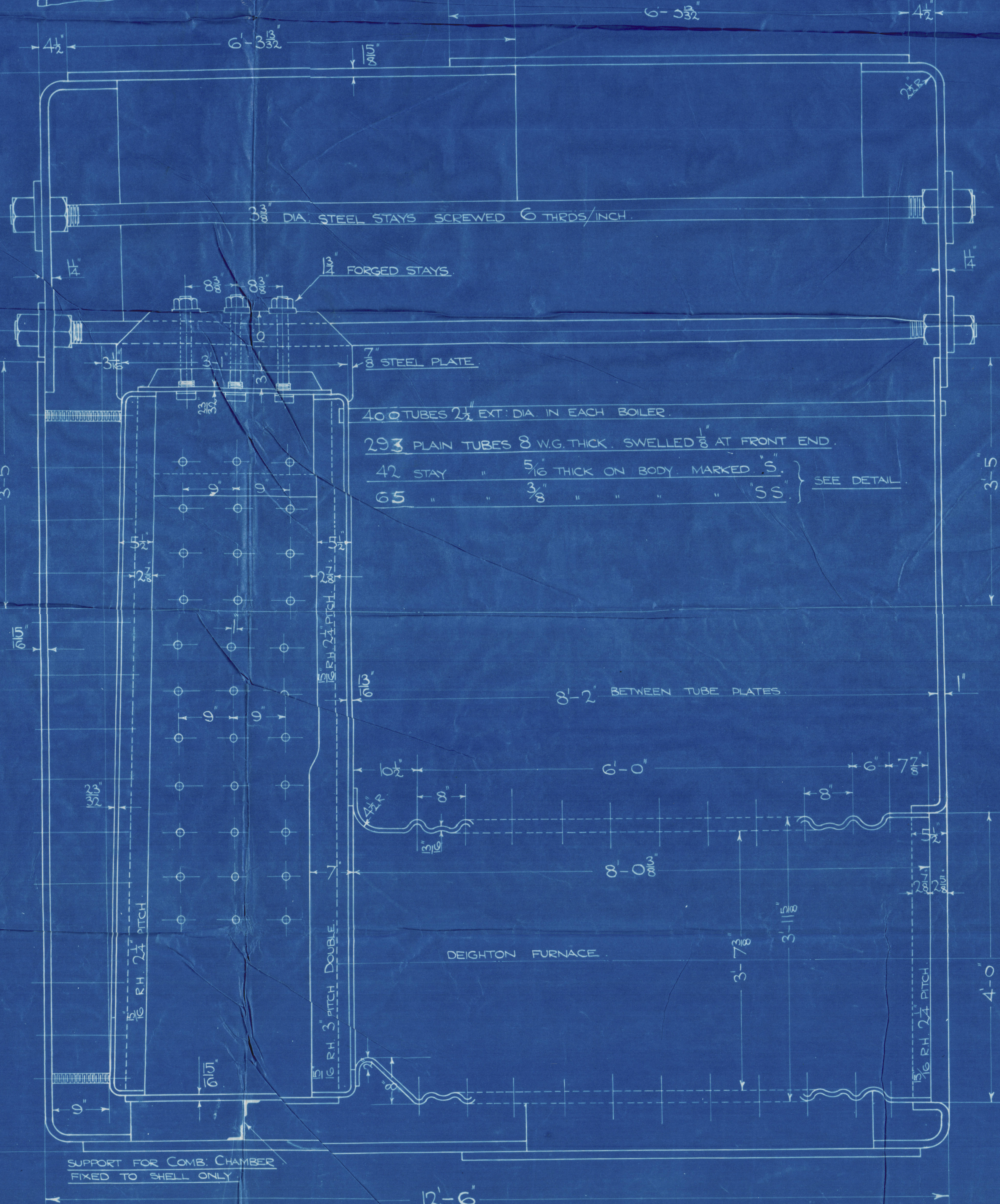
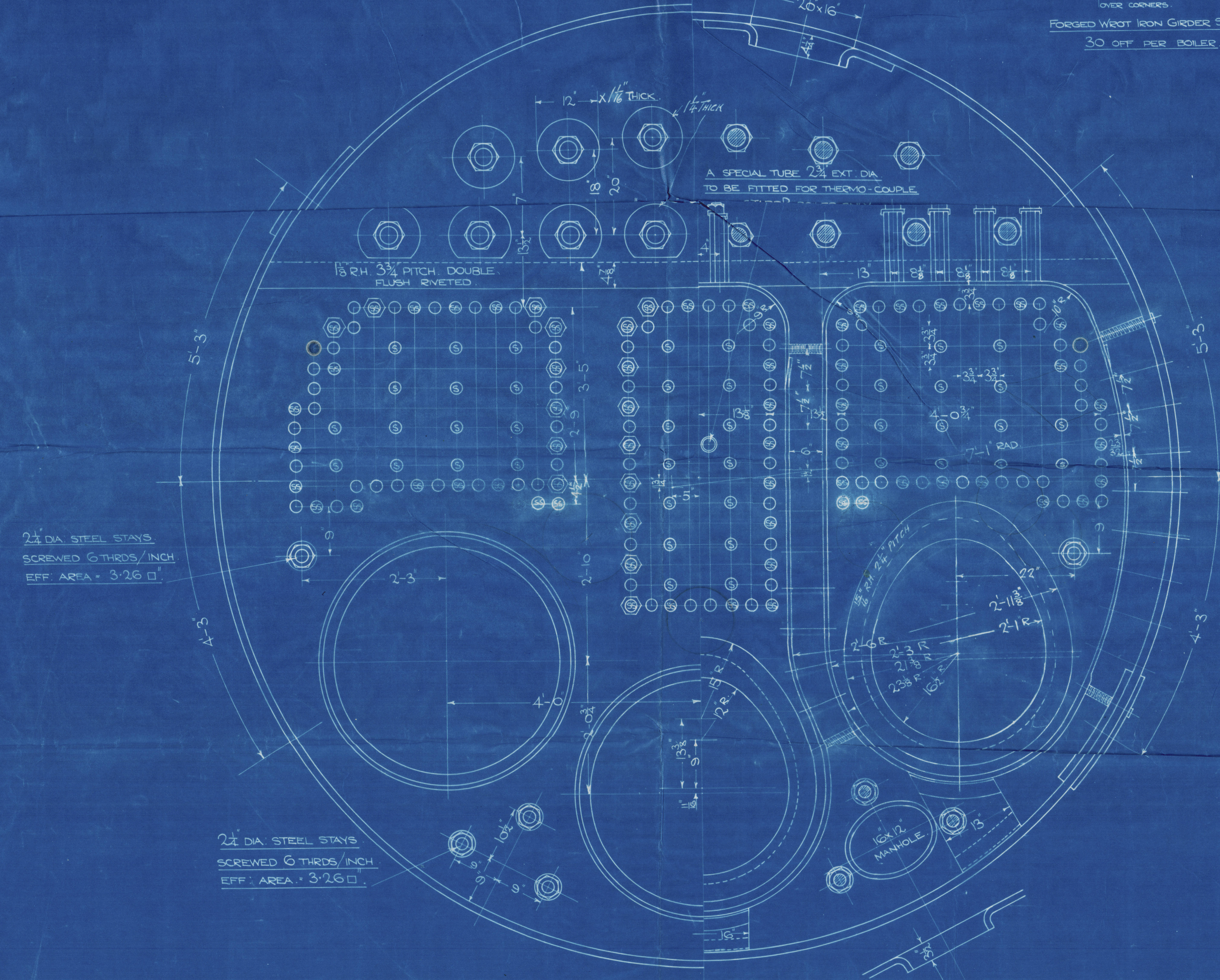
LIMIT OF TENSILES.

	31 TO 34	SIEMENS-MARTIN STEEL
SHELL & BUTT STRAPS	28 - 32	" " "
GIRDER PLATES	26 - 30	" " "
ALL OTHER PLATES	28 - 32	" " "
LONGITUDINAL STAYS	26 - 30	" " "
SCREWED STAYS	26 - 30	" " "
RIVET BARS	24 MIN.	WROT IRON.
FORGED GIRDER STAYS		" " "
TUBES		" " "

SCREWED STAYS.

MARK	DIA.	THREAD	EFF AREA
○	1 3/4	9	2.03 sq. in.
⊙	2	9	2.71 sq. in.

ALL SCREWED STAYS TO BE NUTTED AT BOTH ENDS EXCEPT AT SHELL.



*Handwritten signature and date: 17/11/25*

No 978.

CENTRAL MARINE ENGINE WORKS,  
WEST HARTLEPOOL.

CENTRAL MARINE  
DRAWING OFFICE  
11 NOV 1925  
NO 41268A  
ENGINE WORKS, WEST HARTLEPOOL

41268  
978  
R



C. MAIN BOILER

CENTRAL MARINE  
ENGINE WORKS

VVM GRAY & CO LD

SS NO 978

NO 3649  
LLOYDS TEST  
448 LBS  
W.P. 265 LBS  
24.2.26 TDS

*S. I. City of Bath.*

WEST HARTLEPOOL

*Apr 16 411.*

X 155-0014



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